AMENDMENTS TO THE CLAIMS

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- 1. (Currently amended) A translucent ceramic principally containing a composition according to claim 12 represented by the formula Ba{Tix1Mx2(Mg1-1Zn1)y(Ta1-uNbu)z}vOw, wherein M is at least one selected from the group consisting of Sn, Zr, and Hf; w is a positive number for maintaining the electrical neutrality; x1 + x2 + y + z = 1; $0.015 \le x1 + x2 \le 0.90$; $0 < x1 \le 0.90$; and $0 \le x2 \le 0.60$; $1.60 \le z/y \le 2.40$; $1.00 \le v \le 1.05$; 0 < t < 1; and $0 \le u \le 1$.
- 2. (Currently amended) A translucent ceramic principally containing a composition according to claim 12 represented by the formula Ba{Tix1Mx2Zny(Ta1-uNbu)z}vOw, wherein M is at least one selected from the group consisting of Sn, Zr, and Hf; w is a positive number for maintaining the electrical neutrality; x1 + x2 + y + z = 1; $0.01 \le x1 + x2 \le 0.60$; $0 < x1 \le 0.60$; and $0 \le x2 \le 0.30$; $1.60 \le z/y \le 2.40$; $1.00 \le v \le 1.05$; and $0 \le u \le 1$.
- 3. (Currently amended) A translucent ceramic principally containing a composition according to claim 12 represented by the formula Ba{Tix1Mx2Mgy(Ta1-uNbu)z}vOw, wherein M is at least one selected from the group consisting of Sn, Zr, and Hf; w is a positive number for maintaining the electrical neutrality; x1 + x2 + y + z = 1; $0.04 \le x1 + x2 \le 0.80$; $0 < x1 \le 0.80$; and $0 \le x2 \le 0.40$; $1.60 \le z/y \le 2.40$; $1.00 \le v \le 1.05$; and $0 \le u \le 1$.
 - 4. (Canceled)
- 5. (Currently amended) The translucent ceramic according to Claim [[4]] 12, having a refractive index of 2.01 or more, the linear transmittance being determined using visible light with a wavelength of 633 nm.

6. (Currently amended) The translucent ceramic according to any one of Claims 1 to 3 Claim 12, having a polycrystalline structure.

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7. (Currently amended) A process for producing the translucent ceramic according to any one of Claims 1 to 3 Claim 12, comprising:

a step of preparing an unfired ceramic body, formed using a mixture of ceramic raw material powders, having a predetermined shape;

a step of preparing a co-firing composition having substantially the same composition as that of the mixture of the ceramic raw material powders; and

a step of firing the unfired ceramic body <u>in contact with the co-firing</u> composition in an atmosphere with an oxygen content of 90% by volume or more in such a manner that the unfired ceramic body is in contact with the co-firing composition.

- 8. (Original) The process according to Claim 7, wherein the co-firing composition is powder and the firing step is performed in such a manner that the unfired ceramic body is embedded in the co-firing composition.
- 9. (Original) A translucent ceramic produced by the process according to Claim7.
- 10. (Currently amended) An optical component <u>comprising made of</u> the translucent ceramic according to any one of Claims 1 to 3 <u>Claim 12</u>.
- 11. (Original) An optical device including the optical component according to Claim 10.
- 12. (New) A translucent ceramic comprising a perovskite having a linear transmittance of 20% or more determined using visible light at a wavelength of 633 nm and a sample having a thickness of 0.4 mm, and a composition represented by the

formula Ba{Tix1Mx2(A)y(Ta1-uNbu)z}vOw, wherein A is selected from the group consisting of (Mg1-tZnt), Zn and Mg; M is at least one member selected from the group consisting of Sn, Zr, and Hf; w is a positive number for maintaining the electrical neutrality; x1 + x2 + y + z = 1; $0.015 \le x1 + x2 \le 0.90$; $0 < x1 \le 0.90$; $0 \le x2 \le 0.60$; y is a positive number; $1.60 \le z / y \le 2.40$; $1.00 \le v \le 1.05$; 0 < t < 1; and $0 \le u \le 1$.

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- 13. (New) The translucent ceramic according to Claim 1, having a polycrystalline cubic structure, a refractive index in the range of 2.079 to 2.362 and an Abbe number in the range of 13.2 to 29.9.
- 14. (New) An optical component comprising the translucent ceramic according to Claim 1.
- 15. (New) An optical device including the optical component according to Claim 14.
- 16. (New) The translucent ceramic according to Claim 2, having a polycrystalline structure and a refractive index of 2.01 or more.
- 17. (New) An optical component comprising the translucent ceramic according to Claim 16.
- 18. (New) An optical device including the optical component according to Claim 17.
- 19. (New) The translucent ceramic according to Claim 3, having a polycrystalline structure and a refractive index of 2.01 or more.
- 20. (New) An optical component comprising the translucent ceramic according to Claim 19.

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21. (New) An optical device including the optical component according to Claim 20.